

Systems Engineering Distance Learning Programs



NAVAL
POSTGRADUATE
SCHOOL

Master's Degrees DISTANCE LEARNING

311 Systems Engineering (MSSE or MSES)

This two year sixteen-course master's degree is designed for Navy SYSCOMs and DoD organizations faced with a wide range of systems engineering and integration challenges. The program is tailorable by domain tracks and is designed for the engineering and scientific workforces. Courses provide students core SE core skills, advanced understanding and hands-on experience in SE methods, tools and technologies relevant to their work, resulting in employees with greater knowledge and expertise to enable them to better meet the needs of their customers. Students earn MSSE (if ABET ENG undergraduates or able to demonstrate equivalence), MSES (all others) and DAU equivalencies in ENG career field.

LEARN MORE https://my.nps.edu/web/dl/degProgs_SE_nonRes

312 Aviation Systems Engineering (MSSE or MSES)

This two year eight-course master's degree provides graduates of the U.S. Naval Test Pilot School (USNTPS) the opportunity to obtain a Master of Science in Systems Engineering (provided they hold an ABET undergraduate engineering degree, or can establish equivalency) or Master of Science in Engineering Systems (all others) with an Aviation Systems specialization leading to a 5804P subspecialty code. The program is delivered by distance learning and builds upon the USNTPS academic and flight test instruction, with the student's USNTPS final flight test project and report (DTII) serving in lieu of a thesis, and will provide the advanced systems engineering knowledge, tools and skills necessary for the graduate to be successful as a class desk systems engineer in a Naval Aviation Systems Command (NAVAIR) mission billet or equivalent DoD or Defense contractor position.

LEARN MORE https://my.nps.edu/web/dl/degProgs_312ASE_TPS

711 Systems Engineering Management-Systems Integrated Development (MSSEM)

This two year sixteen-course master's degree prepares students to enter technical management positions through an education focused on the systems engineering process. The program is intended to broaden the technical capabilities of students who may have non-technical backgrounds so they can participate in the systems engineering process as productive integrated team members. Students learn the systems engineering process and engineering management tools, techniques and best practices to help them schedule, cost, and analyze program risks. Students also earn DAU equivalencies in ENG career field.

LEARN MORE https://my.nps.edu/web/dl/degprogs_sem-systems-integrated-development

721 Joint Executive Systems Engineering Management-Product Development (MSSEM or MSPD)

This two year sixteen-course master's degree is a groundbreaking interdisciplinary leadership program designed for senior engineering and technical professionals. By integrating engineering and management elements, the program strives to develop a new kind of leader with a holistic perspective and knowledge of the total life-cycle acquisition system. Students acquire the fundamental skills and strategic perspectives required of effective change agents as well as an enhanced ability to recognize barriers to success early in a system's development cycle when corrective actions are least costly. Students also earn a MIT certificate and DAU equivalencies in PM/ENG career fields.

LEARN MORE https://my.nps.edu/web/dl/degProgs_PD21

722 Systems Engineering Management-Systems and Program Management (MSSEM)

This two year sixteen-course master's degree combines systems engineering with program management knowledge and skills. It is designed to broaden the technical capabilities of DoD acquisition workforce members with nontechnical backgrounds so that they can successfully manage and lead programs or projects in support of the defense acquisition system. Students learn the systems engineering process, from establishing system requirements through test and evaluation; and how to manage, schedule and budget programs and work with DoD suppliers through contracts to meet program obligations. Students also earn DAU equivalencies for PM and ENG level III, T&E and PQM level II and CON level I.

LEARN MORE https://my.nps.edu/web/dl/degprogs_msspm_nonres

Doctorate Degree DISTANCE LEARNING

582 PhD in Systems Engineering

Students take advanced graduate level courses in SE (minimum of six above the master's degree) to pass oral and qualifying examinations and perform research that leads to a dissertation involving some aspect of systems engineering.

LEARN MORE https://my.nps.edu/web/dl/degProgs_PhDinSE

Stackable Certificates

DISTANCE LEARNING

Stacking Four Systems Engineering Certificates
Can Lead to a Master's Degree or Doctorate

Tier 1 SE / SEM Fundamentals Certificate

- 282 Systems Engineering

Tier 2 SE/SEM Core Certificates

(Choose one)

- 131 Systems Capability & Design
- 171 Systems Integrated Development

Tier 3 SE/SEM Domain Specialty Certificates

(Choose one)

- 132 System of Systems Engineering
- 133 Model-based Systems Engineering
- 134 Aviation Systems
- 135 Systems Test & Evaluation
- 136 Directed Energy Systems
- 137 System Safety Engineering
- 138 Digital Engineering
- 172 Systems Technology & Advancement
- 173 Systems Program Management
- 232 Lead Systems Integration
- 242 Reliability & Maintainability Engineering
- Certificates from other departments such as Data Science, Robotics, Defense Energy, and others in development

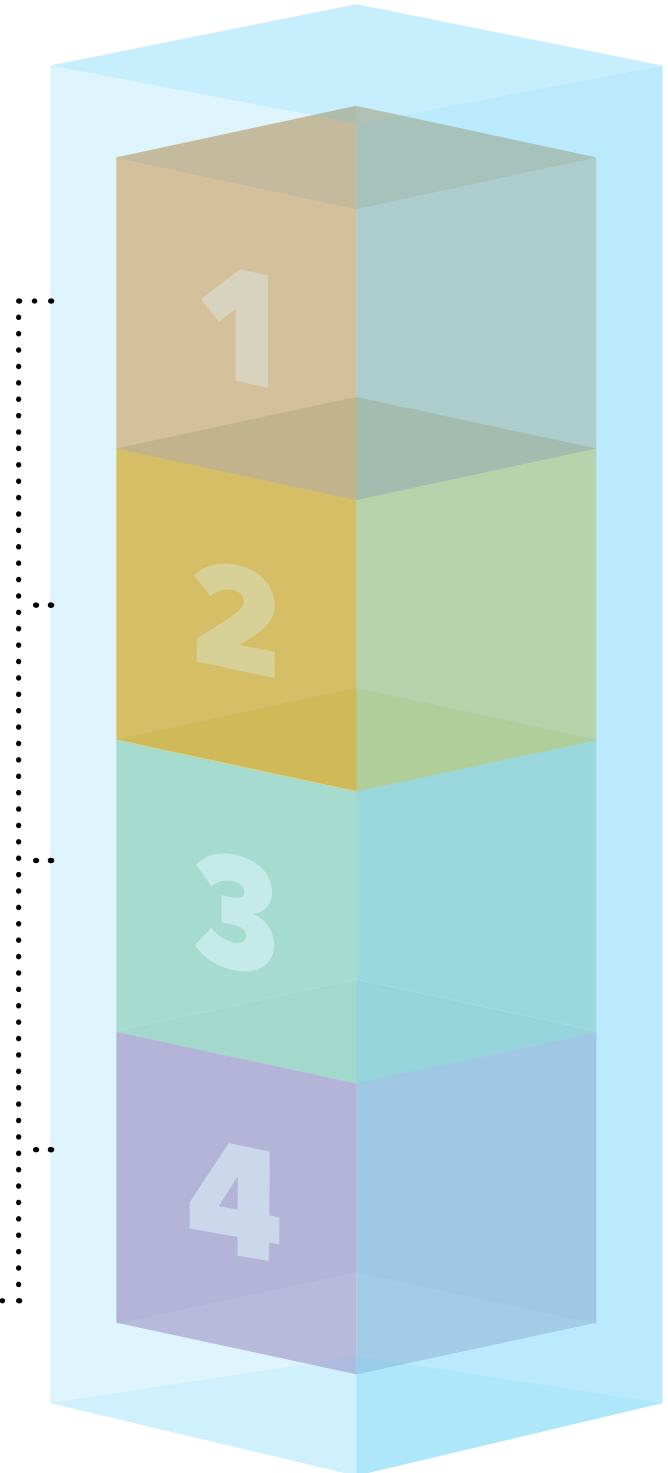
Tier 4 SE / SEM Advanced Capstone Certificates

(Choose one)

- 130 Systems Engineering Capstone
- 170 Systems Engineering Management Capstone

Master's Degree Options

- MS in Systems Engineering
- MS in Engineering Systems
- MS in Systems Engineering Management



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